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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/626,146	07/26/2000	TOSHINORI NAKAYAMA	106364	8065
25944 7:	590 03/07/2003			
OLIFF & BERRIDGE, PLC			EXAMINER	
	P.O. BC X 19928 ALEXANDRIA, VA 22320		NADAV, ORI	
•			ART UNIT	PAPER NUMBER
			2811	17
			DATE MAILED: 03/07/2003	1+

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u> </u>	27			
	Application No.	Applicant(s)			
Offic Action Commons	09/626,146	NAKAYAMA			
Offic Action Summary	Examiner	Art Unit			
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The MAILING DATE of this communication app Peri df r Reply	ears on the cover sheet with th	correspondenc address			
A:SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be ti within the statutory minimum of thirty (30) da ill apply and will expire SIX (6) MONTHS fron cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 18 D	December 2002 .				
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.				
3) Since this application is in condition for allowa					
closed in accordance with the practice under E Disposition of Claims	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.			
4) Claim(s) 15-21 is/are pending in the application	n.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>15,16 and 18-21</u> is/are allowed.					
6)⊠ Claim(s) <u>17</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Pri rity under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priori application from the International Burn * See the attached detailed Office action for a list of 	eau (PCT Rule 17.2(a)).	-			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language prov 15) Acknowledgment is made of a claim for domestic	visional application has been red	ceived.			
Attachment(s)	5 priority under 35 0.3.0. 99 120	5 and/01 121.			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	6)				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 2. Claim 17 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.
- 3. There is no support for the claimed limitations of a substrate having a thinner portion at the corner portion, as recited in claim 17, in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Reasons for allowance

- 4. Claims 15-16 and 18-21 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

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Newman (5,455,456) appears to be the closest prior art reference. Newman teaches in figure 3 a semiconductor device comprising a semiconductor chip 308, a substrate 106, 202 on which the semiconductor chip is mounted, wherein the semiconductor device has side surfaces, each of which is flat and is made of at least an edge surface of the substrate and an edge surface of the resin, a pair of side surfaces make a corner portion, and the substrate is indented at the corner portion further inward. Newman differs from the claimed structure in not having edge surfaces of the substrate and the resin level with each other, and the substrate being indented at the corner portion further inward than a portion of the resin. Therefore, prior art do not teach or render obviousness the semiconductor structure, as claimed. The allowability at least in part resides in the above described structure having elements which are not disclosed in the prior art searched.

Response to Arguments

6. Applicant argues that there is support on page 25 (embodiment of figure 12) for the claimed limitations of a substrate having a thinner portion at the corner portion, as recited in claim 17.

Although the embodiment of figure 12 recites the claimed limitations of a substrate having a thinner portion at the corner portion, independent claim 15 recites

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the limitations of the embodiment of figure 13. There is no support for a device comprising the limitations of a substrate having a thinner portion at the corner portion, as recited in claim 17, which also includes all the limitations of the embodiment of figure 13, as recited in independent claim 15.

Papers related to this application may be submitted to Technology center (TC) 2800 by facsimile transmission. Papers should be faxed to TC 2800 via the TC 2800 Fax center located in Crystal Plaza 4, room 4-C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Group 2811 Fax Center number is (703) 308-7722 and 308-7724. The Group 2811 Fax Center is to be used only for papers related to Group 2811 applications.

Any inquiry concerning this communication or any earlier communication from the Examiner should be directed to *Examiner Nadav* whose telephone number is **(703) 308-8138**. The Examiner is in the Office generally between the hours of 7 AM to 4 PM (Eastern Standard Time) Monday through Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas, can be reached at **(703)** 308-2772.

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Any inquiry of a general nature or relating to the status of this application should be directed to the **Technology Center Receptionists** whose telephone number is **308-0956**.

O.N. March 5, 2003 ORI NADAV
PATENT EXAMINER
TECHNOLOGY CENTER 2800

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